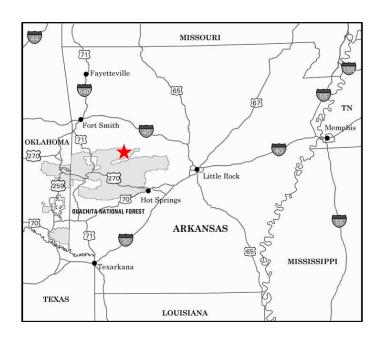
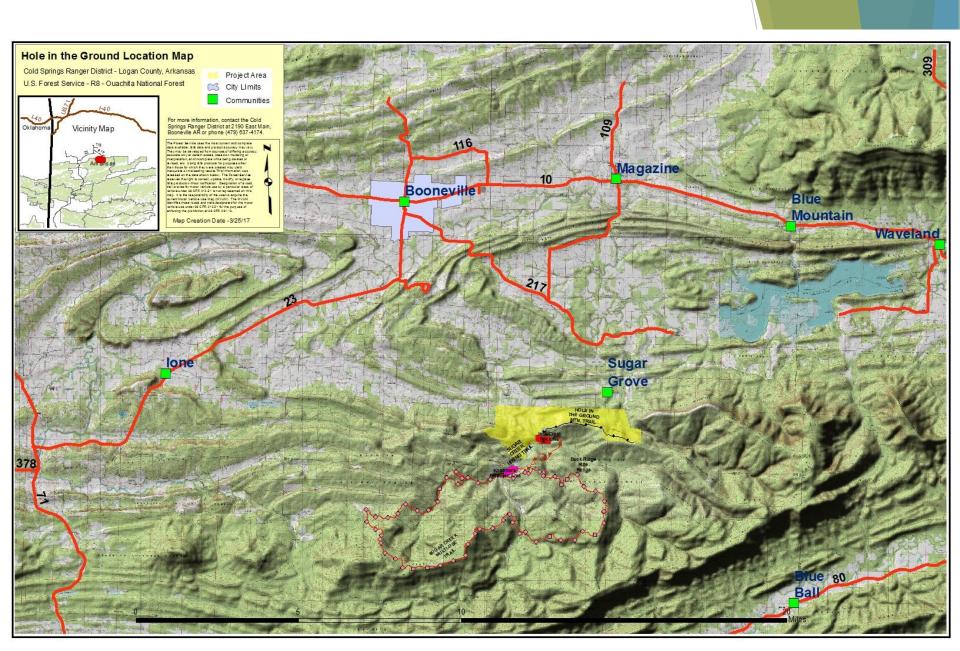
# Hole in the Ground Mountain Ecological Management Unit (EMU) Compartments 204 and 205



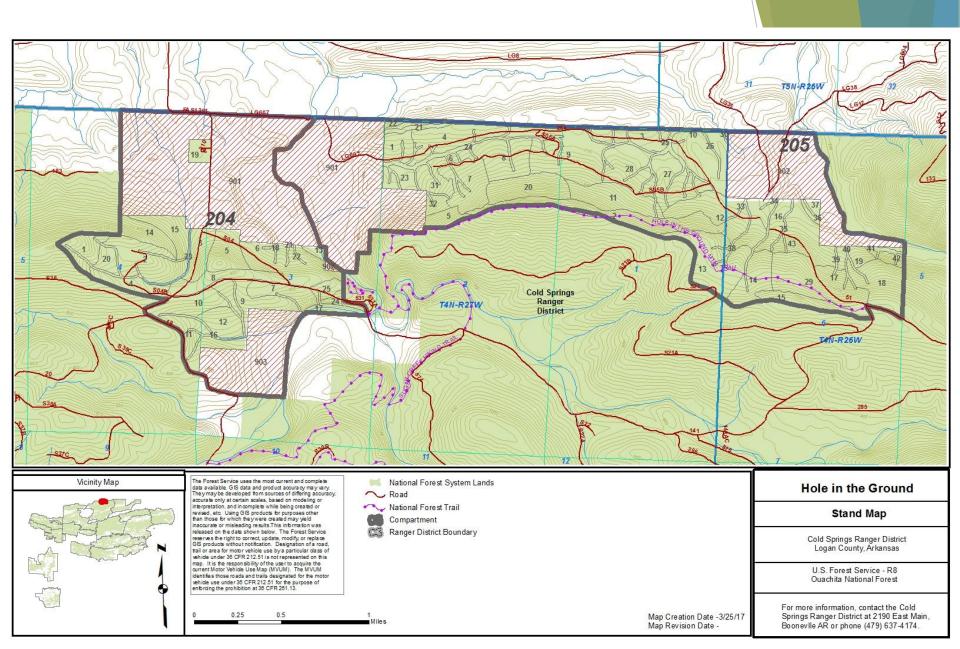
**EXISTING CONDITIONS**APRIL 2017



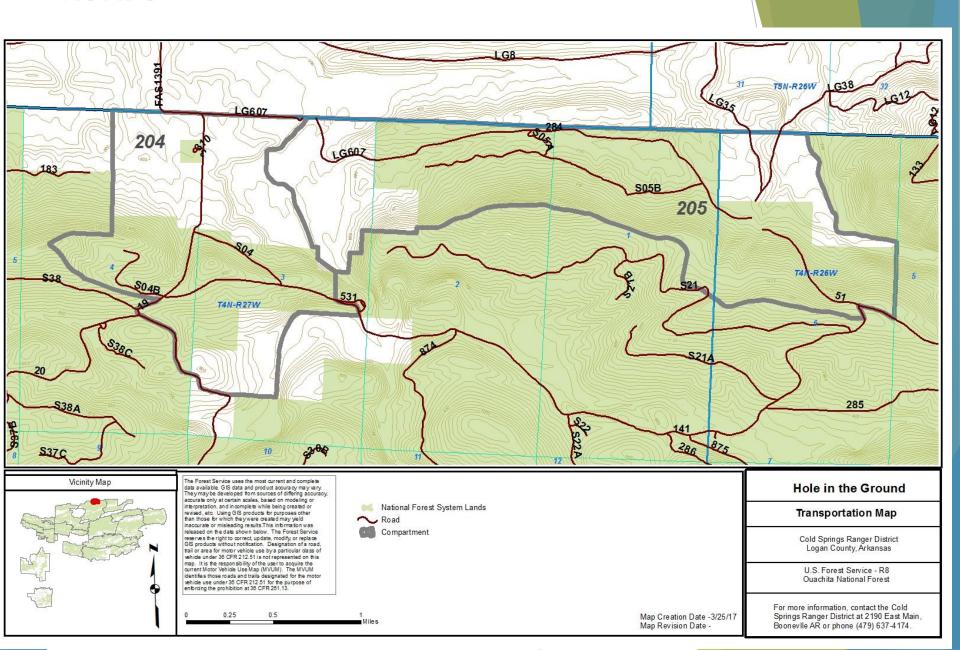
# **LOCATION MAP – LOGAN COUNTY, ARKANSAS**



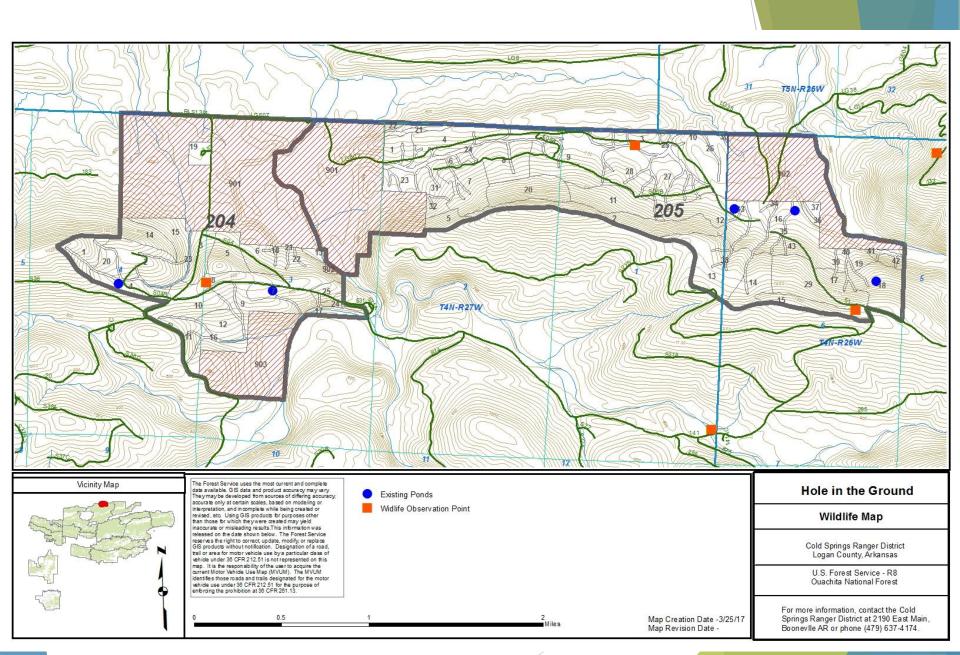
# STAND MAP



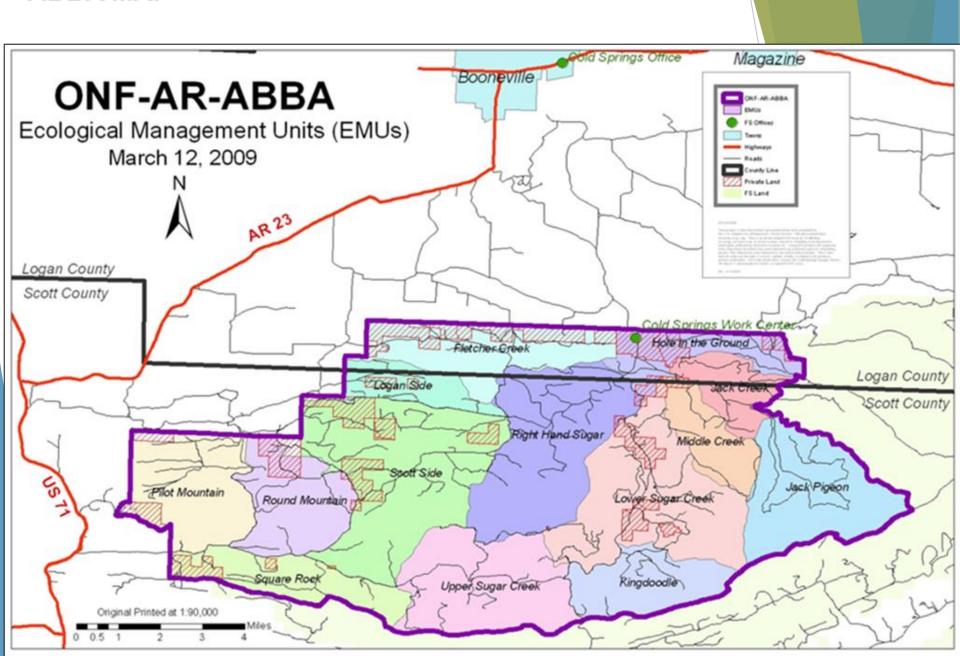
# **ROADS**



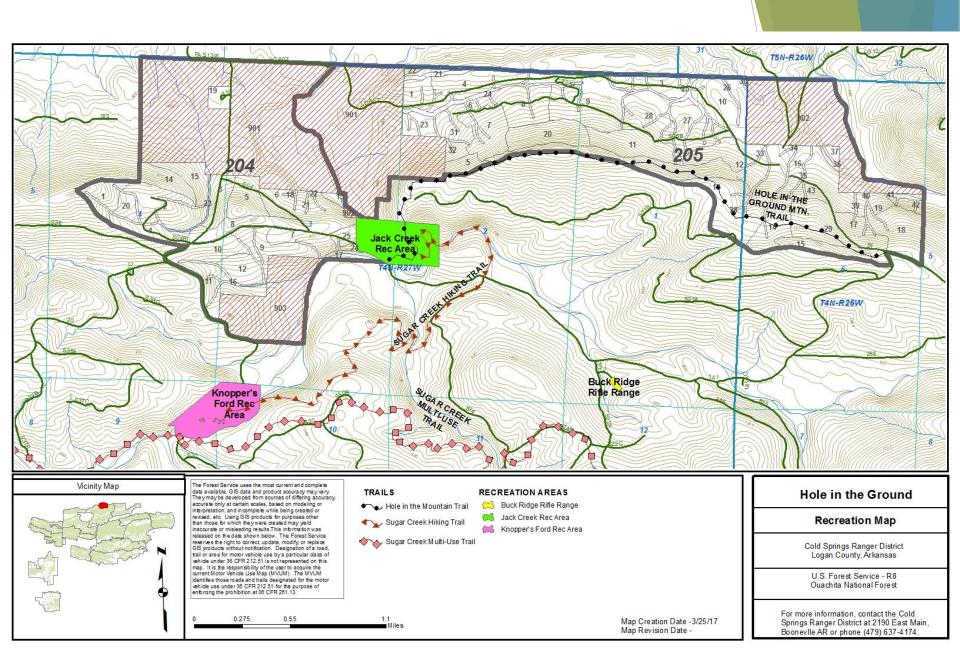
# **WILDLIFE MAP**



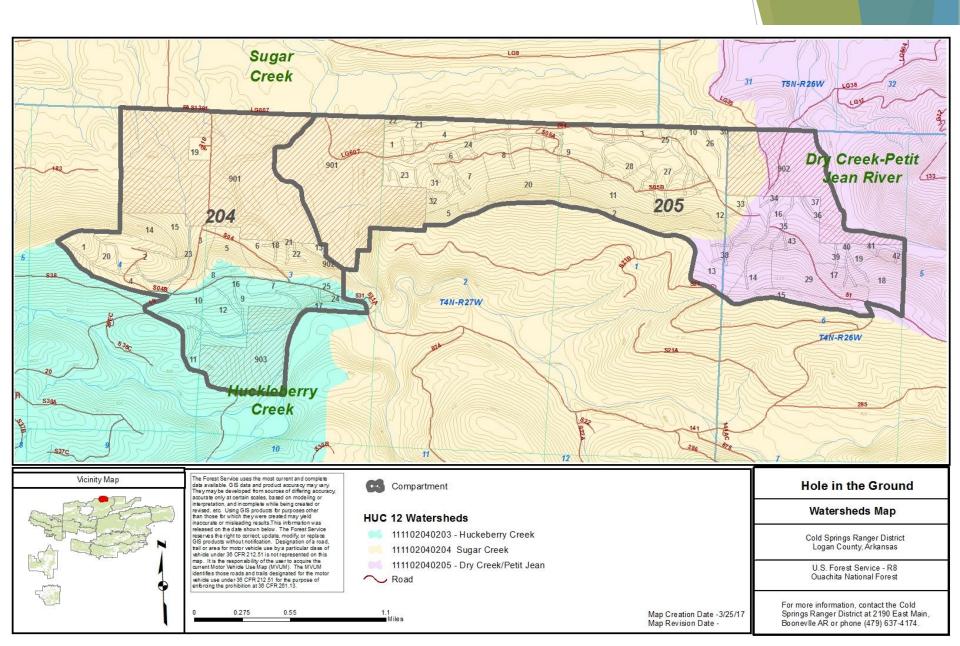
# **ABBA MAP**



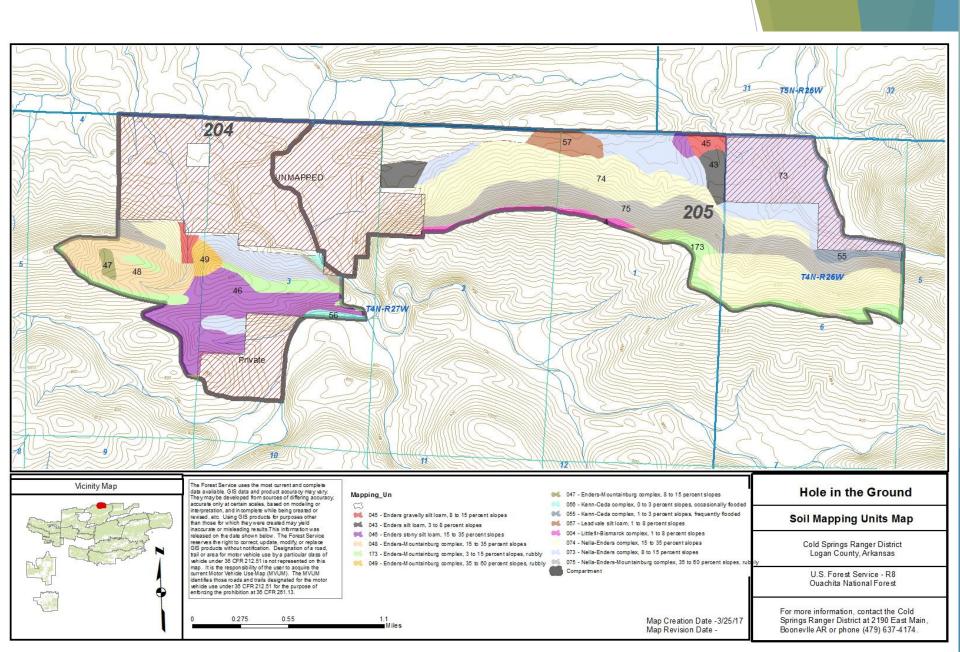
#### **RECREATION MAP**



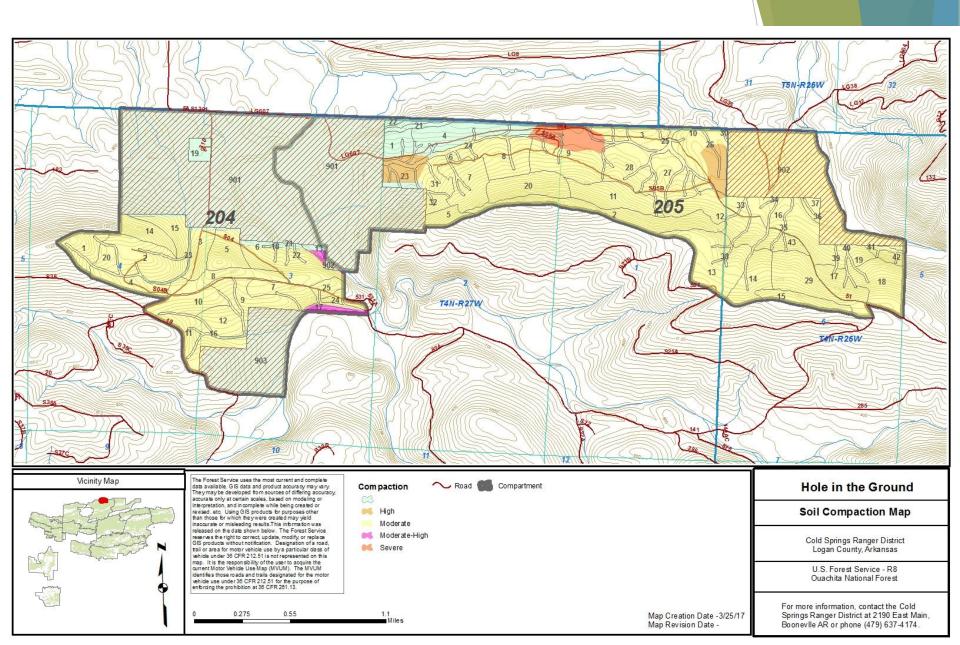
### WATERSHEDS



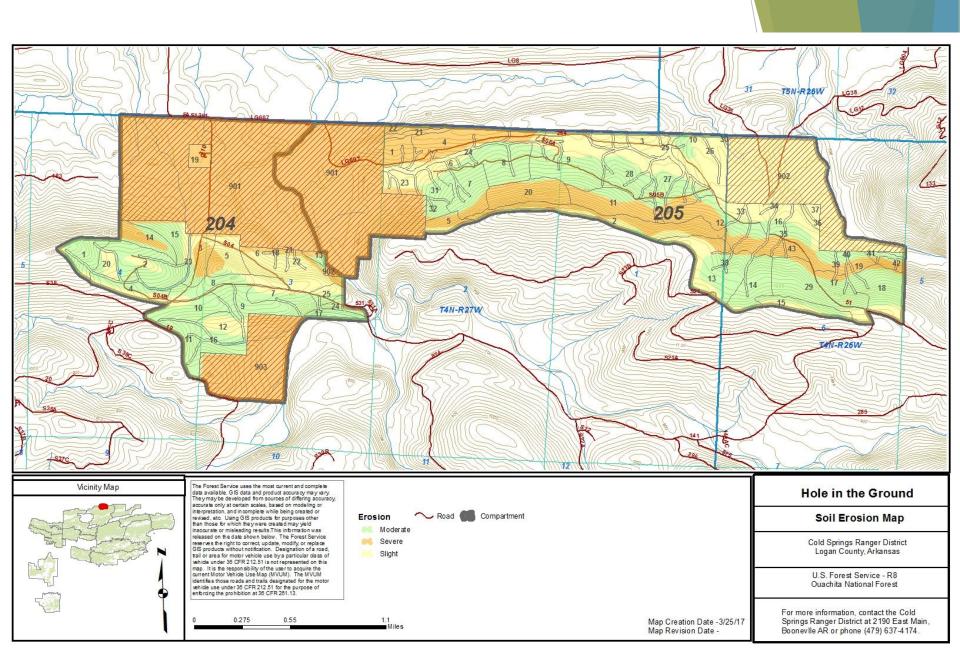
### **SOIL MAP UNITS**



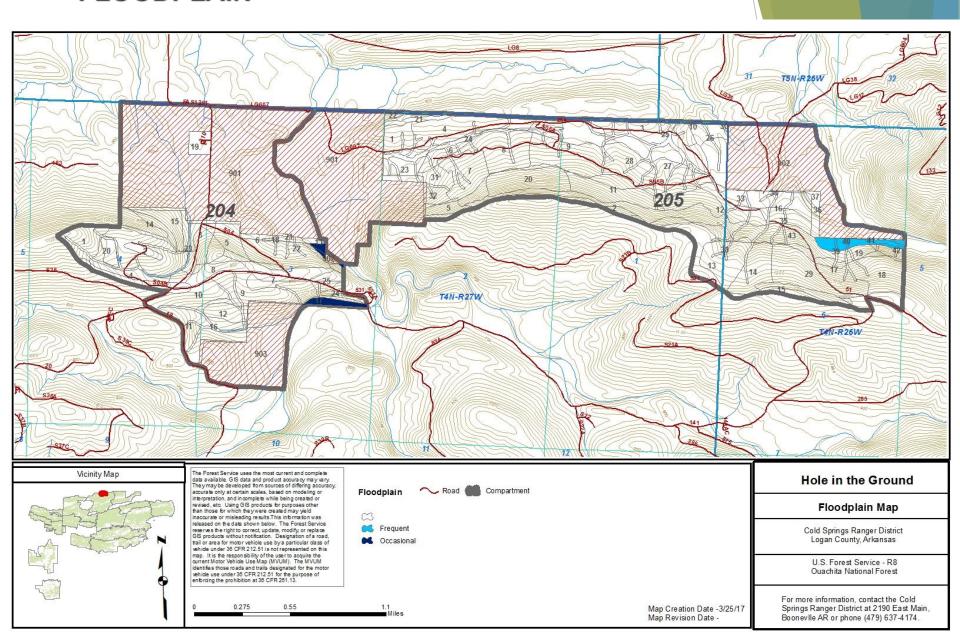
# **SOIL COMPACTION**



# **SOIL EROSION**



# **FLOODPLAIN**



# **SILVICULTURE**

Hole in the Ground EMU - Age Class Distribution for All Forested Land By Forest Type Projected For 2017

	(Acres)						
Age Class	SLP	Work Center	Pine/Hwd	Hwd/Pine	Hardwood	Acres	Percent
0 - 10	14	11				25	2%
11 - 20	27					27	2%
21 - 30						0	0%
31 - 40	220					220	15%
41 - 50	112					112	<b>7</b> %
51 - 60						0	0%
61 - 70						0	0%
71 - 80	63			27		90	<b>6</b> %
81 - 90	408		54		30	492	33%
91-100	115		88	39	4	246	16%
100+	84		43	105	57	289	<b>19</b> %
Acres	1,043	11	185	171	91	1,501	
Percent	69%	1%	12%	11%	6%		100%



# **SILVICULTURE**

	C-204	C-205	Total
Suitable	392	799	1,191
Un-Suitable	86	224	310
NF	478	1,023	1,501
Private	539	451	990
NF/Private	1,017	1,474	2,491

Pine Forest Type (Forested Area) =	1228	82%	
Hardwood Forest Type (Forested Area) =	262	17%	
Work Center =	11	1%	100%
Mature Pine >= 80 =	503	34%	
Mature Hardwood > =100 =	162	11%	
Additional Mature Pine (22 minus 152 acre seed tree areas) in the next 10 years =	-130	25%	
Additional Mature Hardwood in the next 10 years =	43	14%	
Total Mature Pine and Hardwood in the next 10 years =	578	39%	



#### **SILVICULTURE**

Suitable Land Class = 1,191 acres
Unsuitable Land Class = 310 acres
Total National Forest (MA 14) = 1,501 acres

Private (within project boundary) = 990 acres

Total Project Acres = 2,491

Pine Forest Type (forested area) = 1,228 acres (82%)
Mature Growth Pine > 80 years = 503 acres (34%)

Hardwood Forest Type = **262 acres (17%)**Mature growth hardwood >100 years = **162 acres (11%)** 

Work Center = **11 (1%)** 

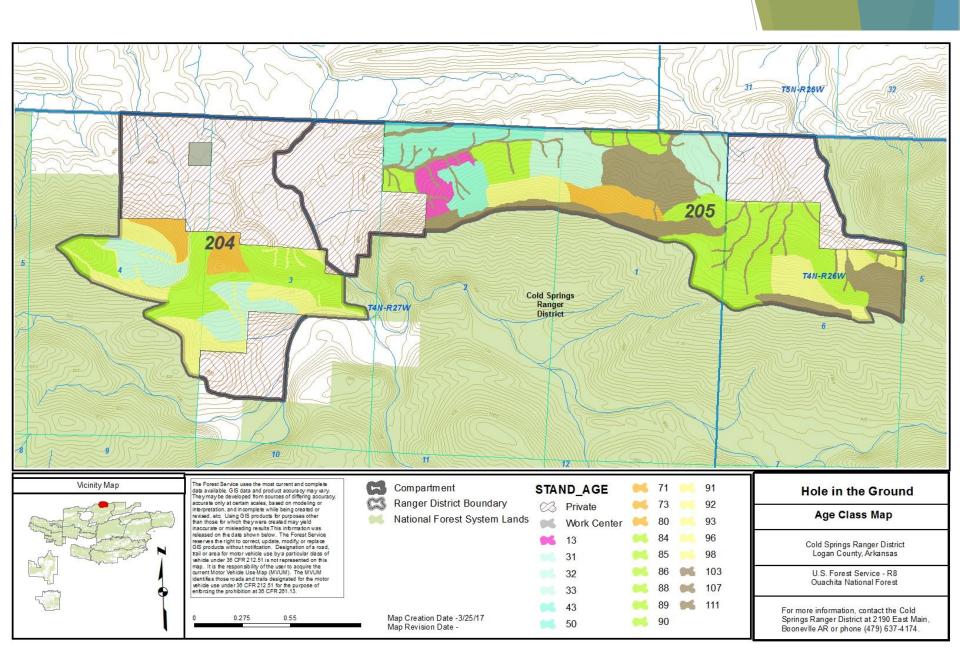
Forest Plan calls for 6-14% in Early Seral age class (0-10 years) There is presently 14 acres in this age class.

We need to create **72 to 166.7** acres of regeneration to meet the Forest Plan Objective

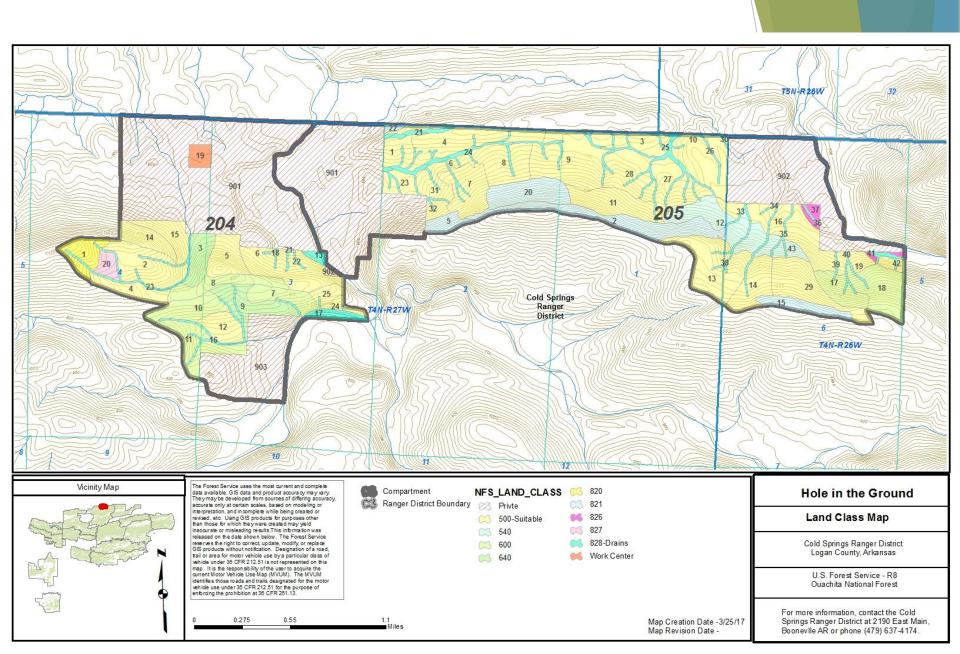


<sup>\*43</sup> acres of hardwood forest type will move into mature growth age class within the next 10 years (14%) meeting/exceeding the Forest Plan Design Criteria WF006 of 5%.

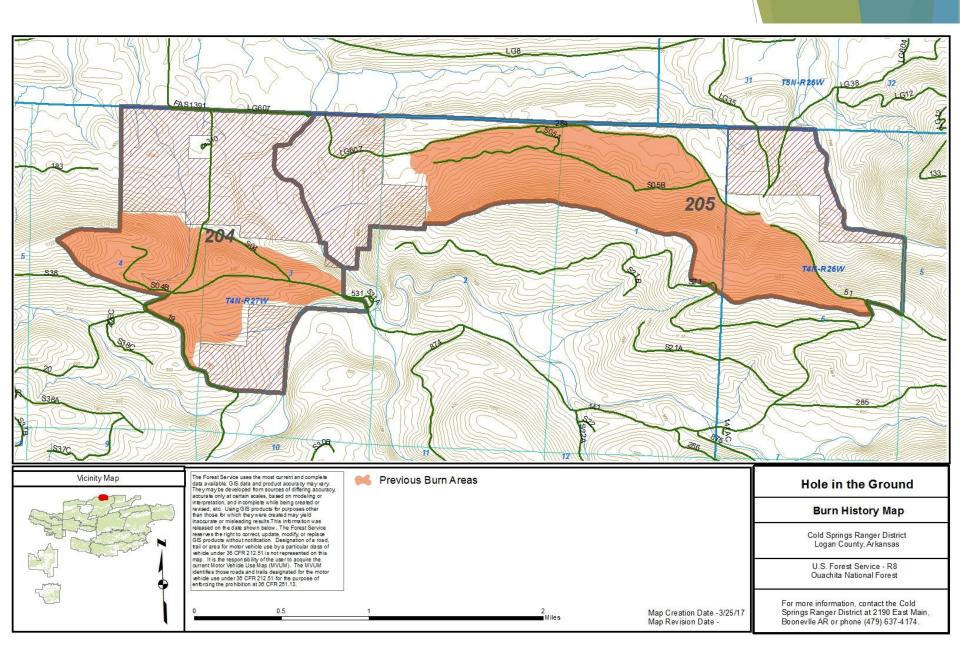
# **AGE CLASS**



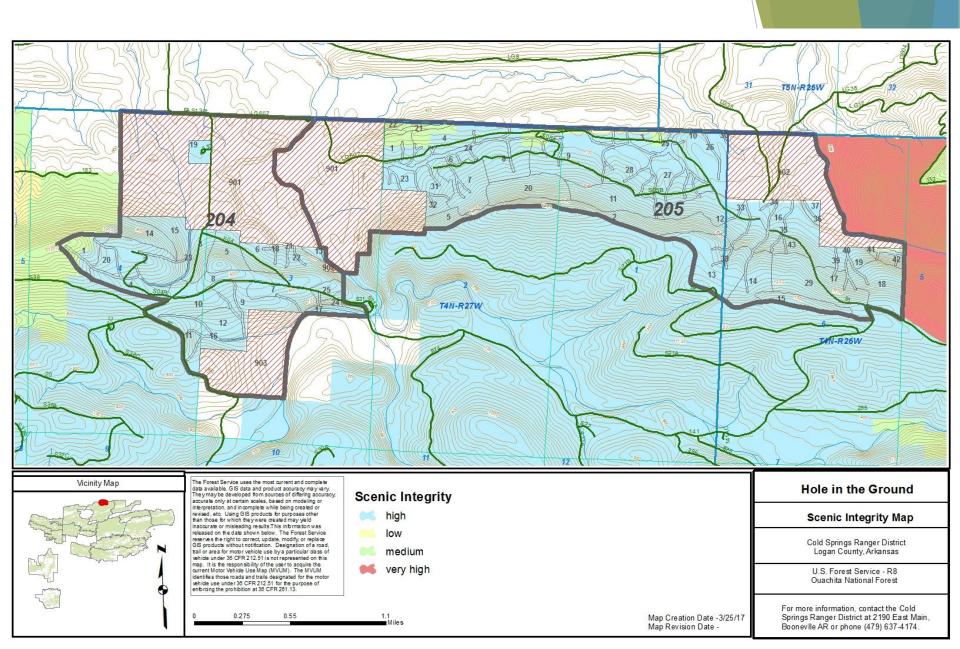
# **LAND CLASS**



# FIRE



# **SCENIC INTEGRITY**



### **AIR QUALITY**

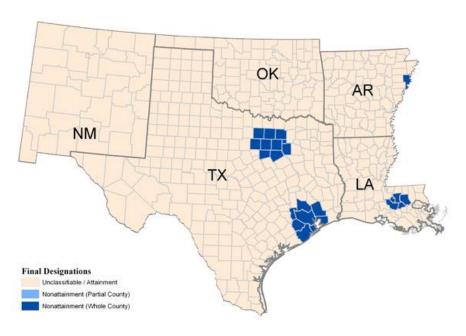


FIGURE 4: MAP OF FINAL DESIGNATIONS - EPA REGION 6

#### **OZONE**

Meeting ozone standards provides important public and environmental health benefits. EPA has worked closely with states and tribes to identify areas in the country that meet the standards and those that need to take steps to reduce ozone pollution. EPAs final designations are based on air quality monitoring data, recommendations submitted by the states and tribes, and other technical information.

Most of Arkansas is listed as Unclassifiable / Attainment. Scott and Polk Counties, Arkansas, falls within this Category. See the adjacent map. (Environmental Protection Agency / 2008 Ground-level Ozone Standards as required by the Clean Air Act Region 6 Final Designations, April 2012)

#### PARTICULATE MATTER (PM 2.5)

The project area is located in Scott and Polk County\ies, Arkansas and is listed as <u>Unclassifiable / Attainment</u> per a letter to Ron Curry, Regional Administrator, U.S. Environmental Protection Agency, Region VI, from Governor Mike Beebe dated December 5, 2013. All monitored counties in Arkansas currently meet the existing primary and secondary PM2.5 Standards with the exception of Pulaski County, which would exceed the new Primary Standard based on the Design Value for calendar years 2010-2012.

